PTO/SB/05 (06-03)
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	Attorn	ey Docket	No.	416272003700				
UTILITY	First Ir	nventor	Ma	Marc K. HELLERSTEIN				
PATENT APPLICATION TRANSMITTAL	Title	META	BIOCHEMICAL METHODS FOR MEASURING METABOLIC FITNESS OF TISSUES OR WHO ORGANISMS					
w nonprovisional applications under 37 CFR 1.53(b))	Express Mail La		bel No	EL 990 374 754 US				
			MS Patent Application					

(Only for new honprovisional applications under 37	Expres	s Mail Label No. EL 990 374 754	US					
APPLICATION ELEMEN See MPEP chapter 600 concerning utility patent a		MS Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450						
1. X Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original, and a duplicate for fee pro 2. X Applicant claims small entity status. See 37 CFR 1.27.  3. X Specification [Total (preferred arrangement set forth below) - Descriptive title of the invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R8 - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure  4. X Drawing(s) (35 U.S.C. 113) [Total 5. Oath or Declaration "UNSIGNED" [Total 6. Newly executed (original or copy 1. Copy from a prior application (37 Copy fr	Pages 46 ]  Sheets 10 ]  Sheets 2 ]  O UNSIGNED  FR 1.63(d)) completed)	7. CD-ROM or CD-R in duplicate, larg Computer Program (Appendix)  8. Nucleotide and/or Amino Acid Sequence (if applicable, all necessary)  a. Computer Readable Form (CRF)  b. Specification Sequence Listing on:  i. CD-ROM or CD-R (2 copic c. Statements verifying identity of a ACCOMPANYING APPLICA  9. Assignment Papers (cover sheet & 10. (when there is an assignee)  11. English Translation Document (if a) Information Disclosure Statement (IDS)/PTO-1449  12. Information Disclosure Statement (IDS)/PTO-1449  13. Preliminary Amendment  14. X Return Receipt Postcard (MPEP 5( (Should be specifically itemized) Certified Copy of Priority Documen (if foreign priority is claimed)  16. Nonpublication Request under 35 Applicant must attach form PTO/S	e Submission  ies); or ii. Paper above copies  TIONS PARTS  a document(s)) Power of Attorney applicable) Copies of IDS Citations  O3)  ht(s) U.S.C. 122 (b)(2)(B)(i).					
6. X Application Data Sheet. See 37 CFR	1.76 - 2 pgs	17. Other:	et sentence of the specification					
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:  Continuation Divisional Continuation-in-part (CIP) of prior application No.:  Prior application information: Examiner For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.								
The moorporation <u>servering</u> as tenso appearance		NDENCE ADDRESS						
X Customer Number:		OR Correspondence address b						
Name								
Address								
City	State	Zip Code						
Country	Telephone	Fax						
Name (Print/Type) TIMOTHY A.	WORRALL	Registration No. (Attorney/Agent)	54,552					
Signature [i.e.t	4A211	Date Sep	otember 16, 2003					

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No.

EL 990 374 754 US, in an envelope addressed to: MS Patent Application, Commissioner for Patents, P.O. Bex 1450, Alexandria, VA 22313-1450, on the date shown below.

Dat d: S pt mb r 16, 2003 Signature: (Lilia Ols n)

Under the Paperwork Reduction Act of 1995, no persons are requ	ired to	respond t	to a c	ollection o	Approve of information	ed for use thre	ough 04/30/2003 OM	B/17 (01-03) B 0651-0032 strol number.		
FEE TRANSMITTAL			Compl te if Known							
			Application Number				N tY tAssigned			
for FY 2003			Filing Date			Concurrently Herewith				
Patent fees are subject to annual revision.		First Named Inventor				Marc K. HELLERSTEIN				
		Examiner Name				Not Yet Assigned				
X Applicant claims small entity status. See 37 CFR 1.27		Group Art Unit				Not Yet Assigned				
TOTAL AMOUNT OF PAYMENT (\$) 885.00		Attomey Docket No.				416272003700				
METHOD OF PAYMENT (check all that apply)	Ī	FEE CALCULATION (continued)								
Check Credit Money X Other None  X Deposit Account	3. A	DDITIO	ANC	L FEES						
Deposit	Large	Entity	Sma	all Entity	_					
Account Number 03-1952		Fee (\$)	Fee			Fee Desc	cription	Fee Paid		
Deposit Account Morrison & Foerster LLP	1051	130	205	1 65	Surcharge -	– late filing fe	e or oath			
Name The Commissioner is hereby authorized to: (check all that apply)	1052	50	2052	2 25	Surcharge -	– late provisi	onal filing fee or cover			
X Charge fee(s) indicated below X Credit any overpayments	1053	130	1053	3 130		h specificatio	n			
Charge any additional fee(s) during the pendency of this application	1812	2,520	1812	2 2,520	For filing a n	equest for ex p	parte reexamination			
Charge fee(s) indicated below, except for the filing fee	1804	920*	1804	4 920°	Requesting Examiner a		of SIR prior to			
to the above-identified deposit account.	1805	1,840*	1805	5 1,840*	Requesting	publication o	of SIR after			
FEE CALCULATION	1251	110	225	1 55	Examiner a Extension for	cuon or reply withi	n first month			
1. BASIC FILING FEE	1252	410	2252	2 205	Extension for	or reply within	n second month			
Large Entity Small Entity Fee	1253	930	2253	3 465	Extension for	or reply within	n third month			
Fee Fee Code (\$) Fee Description Fee Paid	1254	1,450	2254	725	Extension for	or reply within	fourth month			
1001 750 2001 375 Utility filing fee 375.00	1255	1,970	2255			or reply within	n fifth month			
1002 330 2002 165 Design filing fee 1003 520 2003 260 Plant filing fee	1401	320 320	240		Notice of Ap	opeal f in support o	of an agreed			
1004 750 2004 375 Reissue filing fee	1403	280	2403		-	oral hearing	л ап арреа			
1005 160 2005 80 Provisional filing fee	1451	1,510	1451	1 1,510		_	lic use proceeding			
SUBTOTAL (1) (\$) 375.00	1452	110	2452	2 55	Petition to r	evive – unav	oidable			
	1453	1,300	2453			evive - uninte				
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE  Extra Fee from	1501	1,300	2501		· -	fee (or reiss	ue)			
Total Claims 58 -20** = 38 x 9 = 342.00	1502	470	2502		Design issu					
Independent 7 -3** = 4 x 42 = 168.00	1503 1460	630 130	2503 1460		Plant issue	the Commiss	sioner			
Claims / 3 - 4 / 42 - 168.00	1807	50	1807				CFR 1.17(q)			
	1806	180	1806		-		on Disclosure Stmt			
Large Entity Small Entity Fee Fee Fee Fee Fee Fee Fee Description	8021	40	8021		Recording e	each patent a	ssignment per			
1202 18 2202 9 Claims in excess of 20	1809	750	2809		Filing a sub	mission after	of properties) final rejection			
1201 84 2201 42 Independent claims in excess of 3	1810	750	2810	375	(37 CFR 1.1 For each ac	129(a)) Iditional inve	ntion to be			
1203 280 2203 140 Multiple dependent claim, if not paid 1204 84 2204 42 ** Reissue independent claims	l	ı			examined (3	37CFR 1.129	(b))			
over original patent	1801	750	1803		•	expedited ex	xamination (RCE) xamination			
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent						sign application				
SUBTOTAL (2) (\$) 510.00  **or number previously paid, if greater, For Reissues, see above	*Redu	*Reduced by Basic Filing Fee Paid				SUBTOTAL (3) (\$) 0.00				
SUBMITTED BY  Complete (if applicable)						if annlicable)				
Name (Print/Type) TIMOTHY A. WORRALL		ration No. ey/Agent)	5	4,552			(415) 268-7151			
Signature [ ]	inti A D					Date September 16, 2003				